What is claimed is:

1. A base for transforming an inductor, consisting of a core and a coil having two terminals, into a surface mounted device, comprising:

an insulating element;

a first conductive element, substantially Z-shaped, said first conductive element including a strip of first stem, said insulating element partially exposing a lower surface of said first conductive element and said first stem, a remaining portion of said first conductive element embedded in said insulating element; and

a second conductive element, substantially Z-shaped, said second conductive element including a strip of second stem, said insulating element partially exposing a lower surface of said second conductive element and said second stem, a remaining portion of said second conductive element embedded in said insulating element, a terminal of said first conductive element extending toward said second stem.

2. The base according to claim 1, wherein said insulating element further comprises an upper surface having a cavity formed thereon for accommodating said inductor.

3. The base according to claim 1, wherein said insulating element further comprises a flat bottom surface.

4. The base according to claim 1, wherein said exposed lower surface of said first conductive element and said exposed lower surface of said second conductive element are arranged on the same level.

5. The base according to claim 1, wherein said first and second stems further comprise at least one recessed edge,

respectively.

6. The base according to claim 1, wherein said coil has two terminals wound around said respective recessed edges.

7. The base according to claim 1, wherein said first conductive element and said second conductive element are made of metal.

8. The base according to claim 1, wherein said insulating element is made of plastic.

9. A base for transforming an inductor, consisting of a core and a coil having two terminals, into a surface mounted device, comprising:

an insulating element, including an upper surface having a first cavity formed thereon for accommodating said inductor;

a first conductive element, substantially Z-shaped, said first conductive element further comprising:

a first section, embedded in said insulating element;

a second section, partially embedded in said insulating element, said second section including a strip of first stem, said insulating element exposing said first stem and a lower surface of said second section, said first stem including at least one recessed edge;

a first bend section, embedded in said insulating element, said first section connecting with said second section by means of said first bend section, a drop formed between said first bend section and said second section; and

a second conductive element, substantially Z-shaped, said second conductive element further comprising:

a third section, embedded in said insulating element;

a fourth section, partially embedded in said insulating element, said fourth section including a strip of second

stem, said insulating element exposing said second stem and a lower surface of said fourth section, said second stem including at least one recessed edge ; and

a second bend section, embedded in said insulating element, said third section connecting with said fourth section by means of said second bend section, a drop formed between said second bend section and said fourth section ; and

wherein said first section extending toward said fourth section, said third section extending toward said first stem.

10. The base according to claim 9, wherein said core is partially embedded in said first cavity.

11. The base according to claim 9, wherein said first section extends toward said fourth section and crosses a virtual cross-sectional line extending from said first section to said third section.

12. The base according to claim 9, wherein said third section extends toward said first stem and crosses a virtual cross-sectional line extending from said first section to said third section.

13. The base according to claim 9, wherein said insulating element further comprises a flat bottom surface.

14. The base according to claim 13, wherein said lower surface of said second section and said lower surface of said fourth section are arranged on the same level.

15. The base according to claim 9, wherein said coil has two terminals wound around said respective recessed edges.

16. The base according to claim 9, wherein said first conductive

element and said second conductive element are made of metal.

17. The base according to claim 9, wherein said first conductive element and said second conductive element further comprises an upper surface having at least one second cavity and a lower surface having at least one second cavity, respectively.

18. The base according to claim 9, wherein said insulating element is made of plastic.

19. A base for transforming an inductor consisting of a core and a coil having two terminals into a surface mounted device, comprising:

an insulating element accommodating said inductor;

a first conductive element substantially Z-shaped; and

a second conductive element substantially Z-shaped;

wherein said two terminals wound around said first conductive element and said second conductive element.